

SEQUENCE LISTING

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<120> CYTOCHROME P450 MONOOXYGENASE AND NADPH CYTOCHROME P450 OXIDOREDUCTASE
 GENES AND PROTEINS RELATED TO THE OMEGA HYDROXYLASE COMPLEX OF CANDIDA
 TROPICALIS AND METHODS RELATING THERETO

<130> 1010-16

<140> US 09/302,602

<141> 1999-04-30

<160> 118

<170> PatentIn version 3.1

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caact 4145

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<400> 83

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Asp Thr Gly Phe Leu Asn Thr Asp Ser Gly Ser Asn Ser Arg Asp Val
35 40 45

Leu Leu Thr Leu Lys Lys Asn Asn Lys Asn Thr Leu Leu Leu Phe Gly
50 55 60

Ser Gln Thr Gly Thr Ala Glu Asp Tyr Ala Asn Lys Leu Ser Arg Glu
65 70 75 80

Leu His Ser Arg Phe Gly Leu Lys Thr Met Val Ala Asp Phe Ala Asp
85 90 95

Tyr Asp Trp Asp Asn Phe Gly Asp Ile Thr Glu Asp Ile Leu Val Phe
100 105 110

Phe Ile Val Ala Thr Tyr Gly Glu Gly Glu Pro Thr Asp Asn Ala Asp
115 120 125

Glu Phe His Thr Trp Leu Thr Glu Glu Ala Asp Thr Leu Ser Thr Leu
130 135 140

Lys Tyr Thr Val Phe Gly Leu Gly Asn Ser Thr Tyr Glu Phe Phe Asn
145 150 155 160

Ala Ile Gly Arg Lys Phe Asp Arg Leu Leu Ser Glu Lys Gly Gly Asp
165 170 175

Arg Phe Ala Glu Tyr Ala Glu Gly Asp Asp Gly Thr Gly Thr Leu Asp

180 185 190
 Glu Asp Phe Met Ala Trp Lys Asp Asn Val Phe Asp Ala Leu Lys Asn
 195 200 205
 Asp Leu Asn Phe Glu Glu Lys Glu Leu Lys Tyr Glu Pro Asn Val Lys
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 Leu Thr Glu Arg Asp Asp Leu Ser Ala Ala Asp Ser Gln Val Ser Leu
 225 230 235 240
 Gly Glu Pro Asn Lys Lys Tyr Ile Asn Ser Glu Gly Ile Asp Leu Thr
 245 250 255
 Lys Gly Pro Phe Asp His Thr His Pro Tyr Leu Ala Arg Ile Thr Glu
 260 265 270
 Thr Arg Glu Leu Phe Ser Ser Lys Asp Arg His Cys Ile His Val Glu
 275 280 285
 Phe Asp Ile Ser Glu Ser Asn Leu Lys Tyr Thr Thr Gly Asp His Leu
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 Ala Ile Trp Pro Ser Asn Ser Asp Glu Asn Ile Lys Gln Phe Ala Lys
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 Cys Phe Gly Leu Glu Asp Lys Leu Asp Thr Val Ile Glu Leu Lys Ala
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 Ala Val Ile Arg His His Leu Glu Ile Ser Gly Pro Val Ser Arg Gln
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 Ala Phe Thr Arg Leu Gly Gly Asp Lys Gln Glu Phe Ala Ala Lys Val
 385 390 395 400
 Thr Arg Arg Lys Phe Asn Ile Ala Asp Ala Leu Leu Tyr Ser Ser Asn
 405 410 415

Asn Ala Pro Trp Ser Asp Val Pro Phe Glu Phe Leu Ile Glu Asn Val
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Pro His Leu Thr Pro Arg Tyr Tyr Ser Ile Ser Ser Ser Ser Leu Ser
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Glu Lys Gln Leu Ile Asn Val Thr Ala Val Val Glu Ala Glu Glu Glu
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Ala Asp Gly Arg Pro Val Thr Gly Val Val Thr Asn Leu Leu Lys Asn
 465 470 475 480

Val Glu Ile Val Gln Asn Lys Thr Gly Glu Lys Pro Leu Val His Tyr
 485 490 495

Asp Leu Ser Gly Pro Arg Gly Lys Phe Asn Lys Phe Lys Leu Pro Val
 500 505 510

His Val Arg Arg Ser Asn Phe Lys Leu Pro Lys Asn Ser Thr Thr Pro
 515 520 525

Val Ile Leu Ile Gly Pro Gly Thr Gly Val Ala Pro Leu Arg Gly Phe
 530 535 540

Val Arg Glu Arg Val Gln Gln Val Lys Asn Gly Val Asn Val Gly Lys
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Thr Leu Leu Phe Tyr Gly Cys Arg Asn Ser Asn Glu Asp Phe Leu Tyr
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Lys Gln Glu Trp Ala Glu Tyr Ala Ser Val Leu Gly Glu Asn Phe Glu
 580 585 590

Met Phe Asn Ala Phe Ser Arg Gln Asp Pro Ser Lys Lys Val Tyr Val
 595 600 605

Gln Asp Lys Ile Leu Glu Asn Ser Gln Leu Val His Glu Leu Leu Thr
 610 615 620

Glu Gly Ala Ile Ile Tyr Val Cys Gly Asp Ala Ser Arg Met Ala Arg
 625 630 635 640

Asp Val Gln Thr Thr Ile Ser Lys Ile Val Ala Lys Ser Arg Glu Ile
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Ser Glu Asp Lys Ala Ala Glu Leu Val Lys Ser Trp Lys Val Gln Asn
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Arg Tyr Gln Glu Asp Val Trp
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<211> 679

<212> PRT

<213> CANDIDATROPICALIS

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Asp Thr Gly Phe Leu Asn Thr Asp Ser Gly Ser Asn Ser Arg Asp Val
35 40 45

Leu Leu Thr Leu Lys Lys Asn Asn Lys Asn Thr Leu Leu Leu Phe Gly
50 55 60

Ser Gln Thr Gly Thr Ala Glu Asp Tyr Ala Asn Lys Leu Ser Arg Glu
65 70 75 80

Leu His Ser Arg Phe Gly Leu Lys Thr Met Val Ala Asp Phe Ala Asp
85 90 95

Tyr Asp Trp Asp Asn Phe Gly Asp Ile Thr Glu Asp Ile Leu Val Phe
100 105 110

Phe Ile Val Ala Thr Tyr Gly Glu Gly Glu Pro Thr Asp Asn Ala Asp
115 120 125

Glu Phe His Thr Trp Leu Thr Glu Glu Ala Asp Thr Leu Ser Thr Leu
130 135 140

Arg Tyr Thr Val Phe Gly Leu Gly Asn Ser Thr Tyr Glu Phe Phe Asn
145 150 155 160

Ala Ile Gly Arg Lys Phe Asp Arg Leu Leu Ser Glu Lys Gly Gly Asp
165 170 175

Arg Phe Ala Glu Tyr Ala Glu Gly Asp Asp Gly Thr Gly Thr Leu Asp
180 185 190

Glu Asp Phe Met Ala Trp Lys Asp Asn Val Phe Asp Ala Leu Lys Asn
195 200 205

Asp Leu Asn Phe Glu Glu Lys Glu Leu Lys Tyr Glu Pro Asn Val Lys
210 215 220

Leu Thr Glu Arg Asp Asp Leu Ser Ala Ala Asp Ser Gln Val Ser Leu
225 230 235 240

Gly Glu Pro Asn Lys Lys Tyr Ile Asn Ser Glu Gly Ile Asp Leu Thr
245 250 255

Lys Gly Pro Phe Asp His Thr His Pro Tyr Leu Ala Arg Ile Thr Glu
260 265 270

Thr Arg Glu Leu Phe Ser Ser Lys Glu Arg His Cys Ile His Val Glu
275 280 285

Phe Asp Ile Ser Glu Ser Asn Leu Lys Tyr Thr Thr Gly Asp His Leu
290 295 300

Ala Ile Trp Pro Ser Asn Ser Asp Glu Asn Ile Lys Gln Phe Ala Lys
305 310 315 320

Cys Phe Gly Leu Glu Asp Lys Leu Asp Thr Val Ile Glu Leu Lys Ala
325 330 335

Leu Asp Ser Thr Tyr Thr Ile Pro Phe Pro Thr Pro Ile Thr Tyr Gly
340 345 350

Ala Val Ile Arg His His Leu Glu Ile Ser Gly Pro Val Ser Arg Gln
355 360 365

Phe Phe Leu Ser Ile Ala Gly Phe Ala Pro Asp Glu Glu Thr Lys Lys
370 375 380

Thr Phe Thr Arg Leu Gly Gly Asp Lys Gln Glu Phe Ala Thr Lys Val
385 390 395 400

Thr Arg Arg Lys Phe Asn Ile Ala Asp Ala Leu Leu Tyr Ser Ser Asn
405 410 415

Asn Thr Pro Trp Ser Asp Val Pro Phe Glu Phe Leu Ile Glu Asn Ile
420 425 430

Gln His Leu Thr Pro Arg Tyr Tyr Ser Ile Ser Ser Ser Ser Leu Ser
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Glu Lys Gln Leu Ile Asn Val Thr Ala Val Val Glu Ala Glu Glu Glu
450 455 460

Ala Asp Gly Arg Pro Val Thr Gly Val Val Thr Asn Leu Leu Lys Asn
465 470 475 480

Ile Glu Ile Ala Gln Asn Lys Thr Gly Glu Lys Pro Leu Val His Tyr
485 490 495

Asp Leu Ser Gly Pro Arg Gly Lys Phe Asn Lys Phe Lys Leu Pro Val
500 505 510

His Val Arg Arg Ser Asn Phe Lys Leu Pro Lys Asn Ser Thr Thr Pro
515 520 525

Val Ile Leu Ile Gly Pro Gly Thr Gly Val Ala Pro Leu Arg Gly Phe
530 535 540

Val Arg Glu Arg Val Gln Gln Val Lys Asn Gly Val Asn Val Gly Lys
545 550 555 560

Thr Leu Leu Phe Tyr Gly Cys Arg Asn Ser Asn Glu Asp Phe Leu Tyr
565 570 575

Lys Gln Glu Trp Ala Glu Tyr Ala Ser Val Leu Gly Glu Asn Phe Glu
580 585 590

Met Phe Asn Ala Phe Ser Arg Gln Asp Pro Ser Lys Lys Val Tyr Val
595 600 605

Gln Asp Lys Ile Leu Glu Asn Ser Gln Leu Val His Glu Leu Leu Thr
 610 615 620

Glu Gly Ala Ile Ile Tyr Val Cys Gly Asp Ala Ser Arg Met Ala Arg
 625 630 635 640

Asp Val Gln Thr Thr Ile Ser Lys Ile Val Ala Lys Ser Arg Glu Ile
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Arg Tyr Gln Glu Asp Val Trp
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<210> 94
 <211> 3348
 <212> DNA
 <213> Candida tropicalis

<400> 94
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 ctgcaacgat atctgccaaag gtatatagca gaacgtgctg atggttcctc cggtcattat 180
 ctggttggtag ttctgcaggt aaatttggat gtcaggtagt ggaggagggt ttgtatcggg 240
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 atgcaacttg acgagacgct gttaggaatc cacagaatga tagcaggaag cttactacgt 480
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 ctatcacttc tacatgtcaa cctacgatgt atctcatcac catctagttt cttggcaatc 660
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gtcggcaacc ccgcgtatat gtccatgtaa ttctccatgg ccacctccat caacacactg 2640
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<210> 95
<211> 523
<212> PRT
<213> CANDIDATROPICALIS

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<400> 95

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Met Ala Thr Gln Glu Ile Ile Asp Ser Val Leu Pro Tyr Leu Thr Lys
1          5          10          15

```

```

Trp Tyr Thr Val Ile Thr Ala Ala Val Leu Val Phe Leu Ile Ser Thr
          20          25          30

```

```

Asn Ile Lys Asn Tyr Val Lys Ala Lys Lys Leu Lys Cys Val Asp Pro
          35          40          45

```

```

Pro Tyr Leu Lys Asp Ala Gly Leu Thr Gly Ile Leu Ser Leu Ile Ala
          50          55          60

```

```

Ala Ile Lys Ala Lys Asn Asp Gly Arg Leu Ala Asn Phe Ala Asp Glu
          65          70          75          80

```

```

Val Phe Asp Glu Tyr Pro Asn His Thr Phe Tyr Leu Ser Val Ala Gly
          85          90          95

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Ala Leu Lys Ile Val Met Thr Val Asp Pro Glu Asn Ile Lys Ala Val
100 105 110

Leu Ala Thr Gln Phe Thr Asp Phe Ser Leu Gly Thr Arg His Ala His
115 120 125

Phe Ala Pro Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Glu Gly
130 135 140

Trp Lys His Ser Arg Ala Met Leu Arg Pro Gln Phe Ala Arg Asp Gln
145 150 155 160

Ile Gly His Val Lys Ala Leu Glu Pro His Ile Gln Ile Met Ala Lys
165 170 175

Gln Ile Lys Leu Asn Gln Gly Lys Thr Phe Asp Ile Gln Glu Leu Phe
180 185 190

Phe Arg Phe Thr Val Asp Thr Ala Thr Glu Phe Leu Phe Gly Glu Ser
195 200 205

Val His Ser Leu Tyr Asp Glu Lys Leu Gly Ile Pro Thr Pro Asn Glu
210 215 220

Ile Pro Gly Arg Glu Asn Phe Ala Ala Ala Phe Asn Val Ser Gln His
225 230 235 240

Tyr Leu Ala Thr Arg Ser Tyr Ser Gln Thr Phe Tyr Phe Leu Thr Asn
245 250 255

Pro Lys Glu Phe Arg Asp Cys Asn Ala Lys Val His His Leu Ala Lys
260 265 270

Tyr Phe Val Asn Lys Ala Leu Asn Phe Thr Pro Glu Glu Leu Glu Glu
275 280 285

Lys Ser Lys Ser Gly Tyr Val Phe Leu Tyr Glu Leu Val Lys Gln Thr
290 295 300

Arg Asp Pro Lys Val Leu Gln Asp Gln Leu Leu Asn Ile Met Val Ala
305 310 315 320

Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Ala Leu Phe Glu Leu
325 330 335

Ala Arg His Pro Glu Met Trp Ser Lys Leu Arg Glu Glu Ile Glu Val
340 345 350

Asn Phe Gly Val Gly Glu Asp Ser Arg Val Glu Glu Ile Thr Phe Glu
355 360 365

Ala Leu Lys Arg Cys Glu Tyr Leu Lys Ala Ile Leu Asn Glu Thr Leu
370 375 380

Arg Met Tyr Pro Ser Val Pro Val Asn Phe Arg Thr Ala Thr Arg Asp
385 390 395 400

Thr Thr Leu Pro Arg Gly Gly Gly Ala Asn Gly Thr Asp Pro Ile Tyr
405 410 415

Ile Pro Lys Gly Ser Thr Val Ala Tyr Val Val Tyr Lys Thr His Arg
420 425 430

Leu Glu Glu Tyr Tyr Gly Lys Asp Ala Asn Asp Phe Arg Pro Glu Arg
435 440 445

Trp Phe Glu Pro Ser Thr Lys Lys Leu Gly Trp Ala Tyr Val Pro Phe
450 455 460

Asn Gly Gly Pro Arg Val Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu
465 470 475 480

Ala Ser Tyr Val Ile Thr Arg Leu Ala Gln Met Phe Glu Thr Val Ser
485 490 495

Ser Asp Pro Gly Leu Glu Tyr Pro Pro Pro Lys Cys Ile His Leu Thr
500 505 510

Met Ser His Asn Asp Gly Val Phe Val Lys Met
515 520

<210> 96

<211> 522

<212> PRT

<213> CANDIDATROPICALIS

<400> 96

Met Thr Val His Asp Ile Ile Ala Thr Tyr Phe Thr Lys Trp Tyr Val
1 5 10 15

Ile Val Pro Leu Ala Leu Ile Ala Tyr Arg Val Leu Asp Tyr Phe Tyr
20 25 30

Gly Arg Tyr Leu Met Tyr Lys Leu Gly Ala Lys Pro Phe Phe Gln Lys
35 40 45

Gln Thr Asp Gly Cys Phe Gly Phe Lys Ala Pro Leu Glu Leu Leu Lys
50 55 60

Lys Lys Ser Asp Gly Thr Leu Ile Asp Phe Thr Leu Gln Arg Ile His
65 70 75 80

Asp Leu Asp Arg Pro Asp Ile Pro Thr Phe Thr Phe Pro Val Phe Ser
85 90 95

Ile Asn Leu Val Asn Thr Leu Glu Pro Glu Asn Ile Lys Ala Ile Leu
100 105 110

Ala Thr Gln Phe Asn Asp Phe Ser Leu Gly Thr Arg His Ser His Phe
115 120 125

Ala Pro Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Ala Gly Trp
130 135 140

Lys His Ser Arg Ser Met Leu Arg Pro Gln Phe Ala Arg Glu Gln Ile
145 150 155 160

Ser His Val Lys Leu Leu Glu Pro His Val Gln Val Phe Phe Lys His
165 170 175

Val Arg Lys Ala Gln Gly Lys Thr Phe Asp Ile Gln Glu Leu Phe Phe
180 185 190

Arg Leu Thr Val Asp Ser Ala Thr Glu Phe Leu Phe Gly Glu Ser Val
195 200 205

Glu Ser Leu Arg Asp Glu Ser Ile Gly Met Ser Ile Asn Ala Leu Asp
210 215 220

Phe Asp Gly Lys Ala Gly Phe Ala Asp Ala Phe Asn Tyr Ser Gln Asn
 225 230 235 240

Tyr Leu Ala Ser Arg Ala Val Met Gln Gln Leu Tyr Trp Val Leu Asn
 245 250 255

Gly Lys Lys Phe Lys Glu Cys Asn Ala Lys Val His Lys Phe Ala Asp
 260 265 270

Tyr Tyr Val Asn Lys Ala Leu Asp Leu Thr Pro Glu Gln Leu Glu Lys
 275 280 285

Gln Asp Gly Tyr Val Phe Leu Tyr Glu Leu Val Lys Gln Thr Arg Asp
 290 295 300

Lys Gln Val Leu Arg Asp Gln Leu Leu Asn Ile Met Val Ala Gly Arg
 305 310 315 320

Asp Thr Thr Ala Gly Leu Leu Ser Phe Val Phe Phe Glu Leu Ala Arg
 325 330 335

Asn Pro Glu Val Thr Asn Lys Leu Arg Glu Glu Ile Glu Asp Lys Phe
 340 345 350

Gly Leu Gly Glu Asn Ala Ser Val Glu Asp Ile Ser Phe Glu Ser Leu
 355 360 365

Lys Ser Cys Glu Tyr Leu Lys Ala Val Leu Asn Glu Thr Leu Arg Leu
 370 375 380

Tyr Pro Ser Val Pro Gln Asn Phe Arg Val Ala Thr Lys Asn Thr Thr
 385 390 395 400

Leu Pro Arg Gly Gly Gly Lys Asp Gly Leu Ser Pro Val Leu Val Arg
 405 410 415

Lys Gly Gln Thr Val Ile Tyr Gly Val Tyr Ala Ala His Arg Asn Pro
 420 425 430

Ala Val Tyr Gly Lys Asp Ala Leu Glu Phe Arg Pro Glu Arg Trp Phe
 435 440 445

Glu Pro Glu Thr Lys Lys Leu Gly Trp Ala Phe Leu Pro Phe Asn Gly
 450 455 460

Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu Ala Ser
 465 470 475 480

Tyr Val Thr Val Arg Leu Leu Gln Glu Phe Ala His Leu Ser Met Asp
 485 490 495

Pro Asp Thr Glu Tyr Pro Pro Lys Lys Met Ser His Leu Thr Met Ser
 500 505 510

Leu Phe Asp Gly Ala Asn Ile Glu Met Tyr
 515 520

<210> 97
 <211> 522
 <212> PRT
 <213> CANDIDATROPICALIS

<400> 97

Met Thr Ala Gln Asp Ile Ile Ala Thr Tyr Ile Thr Lys Trp Tyr Val
 1 5 10 15

Ile Val Pro Leu Ala Leu Ile Ala Tyr Arg Val Leu Asp Tyr Phe Tyr
 20 25 30

Gly Arg Tyr Leu Met Tyr Lys Leu Gly Ala Lys Pro Phe Phe Gln Lys
 35 40 45

Gln Thr Asp Gly Tyr Phe Gly Phe Lys Ala Pro Leu Glu Leu Leu Lys
 50 55 60

Lys Lys Ser Asp Gly Thr Leu Ile Asp Phe Thr Leu Glu Arg Ile Gln
 65 70 75 80

Ala Leu Asn Arg Pro Asp Ile Pro Thr Phe Thr Phe Pro Ile Phe Ser
 85 90 95

Ile Asn Leu Ile Ser Thr Leu Glu Pro Glu Asn Ile Lys Ala Ile Leu
 100 105 110

Ala Thr Gln Phe Asn Asp Phe Ser Leu Gly Thr Arg His Ser His Phe
 115 120 125

Ala Pro Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Ala Gly Trp
 130 135 140

Lys His Ser Arg Ser Met Leu Arg Pro Gln Phe Ala Arg Glu Gln Ile
 145 150 155 160

Ser His Val Lys Leu Leu Glu Pro His Met Gln Val Phe Phe Lys His
 165 170 175

Val Arg Lys Ala Gln Gly Lys Thr Phe Asp Ile Gln Glu Leu Phe Phe
 180 185 190

Arg Leu Thr Val Asp Ser Ala Thr Glu Phe Leu Phe Gly Glu Ser Val
 195 200 205

Glu Ser Leu Arg Asp Glu Ser Ile Gly Met Ser Ile Asn Ala Leu Asp
 210 215 220

Phe Asp Gly Lys Ala Gly Phe Ala Asp Ala Phe Asn Tyr Ser Gln Asn
 225 230 235 240

Tyr Leu Ala Ser Arg Ala Val Met Gln Gln Leu Tyr Trp Val Leu Asn
 245 250 255

Gly Lys Lys Phe Lys Glu Cys Asn Ala Lys Val His Lys Phe Ala Asp
 260 265 270

Tyr Tyr Val Ser Lys Ala Leu Asp Leu Thr Pro Glu Gln Leu Glu Lys
 275 280 285

Gln Asp Gly Tyr Val Phe Leu Tyr Glu Leu Val Lys Gln Thr Arg Asp
 290 295 300

Arg Gln Val Leu Arg Asp Gln Leu Leu Asn Ile Met Val Ala Gly Arg
 305 310 315 320

Asp Thr Thr Ala Gly Leu Leu Ser Phe Val Phe Phe Glu Leu Ala Arg
 325 330 335

Asn Pro Glu Val Thr Asn Lys Leu Arg Glu Glu Ile Glu Asp Lys Phe
 340 345 350

Gly Leu Gly Glu Asn Ala Arg Val Glu Asp Ile Ser Phe Glu Ser Leu
 355 360 365

Lys Ser Cys Glu Tyr Leu Lys Ala Val Leu Asn Glu Thr Leu Arg Leu
 370 375 380

Tyr Pro Ser Val Pro Gln Asn Phe Arg Val Ala Thr Lys Asn Thr Thr
 385 390 395 400

Leu Pro Arg Gly Gly Gly Lys Asp Gly Leu Ser Pro Val Leu Val Arg
 405 410 415

Lys Gly Gln Thr Val Met Tyr Gly Val Tyr Ala Ala His Arg Asn Pro
 420 425 430

Ala Val Tyr Gly Lys Asp Ala Leu Glu Phe Arg Pro Glu Arg Trp Phe
 435 440 445

Glu Pro Glu Thr Lys Lys Leu Gly Trp Ala Phe Leu Pro Phe Asn Gly
 450 455 460

Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu Ala Ser
 465 470 475 480

Tyr Val Thr Val Arg Leu Leu Gln Glu Phe Gly His Leu Ser Met Asp
 485 490 495

Pro Asn Thr Glu Tyr Pro Pro Arg Lys Met Ser His Leu Thr Met Ser
 500 505 510

Leu Phe Asp Gly Ala Asn Ile Glu Met Tyr
 515 520

<210> 98
 <211> 540
 <212> PRT
 <213> CANDIDATROPICALIS

<400> 98

Met Ser Ser Ser Pro Ser Phe Ala Gln Glu Val Leu Ala Thr Thr Ser
 1 5 10 15

Pro Tyr Ile Glu Tyr Phe Leu Asp Asn Tyr Thr Arg Trp Tyr Tyr Phe
20 25 30

Ile Pro Leu Val Leu Leu Ser Leu Asn Phe Ile Ser Leu Leu His Thr
35 40 45

Arg Tyr Leu Glu Arg Arg Phe His Ala Lys Pro Leu Gly Asn Phe Val
50 55 60

Arg Asp Pro Thr Phe Gly Ile Ala Thr Pro Leu Leu Leu Ile Tyr Leu
65 70 75 80

Lys Ser Lys Gly Thr Val Met Lys Phe Ala Trp Gly Leu Trp Asn Asn
85 90 95

Lys Tyr Ile Val Arg Asp Pro Lys Tyr Lys Thr Thr Gly Leu Arg Ile
100 105 110

Val Gly Leu Pro Leu Ile Glu Thr Met Asp Pro Glu Asn Ile Lys Ala
115 120 125

Val Leu Ala Thr Gln Phe Asn Asp Phe Ser Leu Gly Thr Arg His Asp
130 135 140

Phe Leu Tyr Ser Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Ala
145 150 155 160

Gly Trp Lys His Ser Arg Thr Met Leu Arg Pro Gln Phe Ala Arg Glu
165 170 175

Gln Val Ser His Val Lys Leu Leu Glu Pro His Val Gln Val Phe Phe
180 185 190

Lys His Val Arg Lys His Arg Gly Gln Thr Phe Asp Ile Gln Glu Leu
195 200 205

Phe Phe Arg Leu Thr Val Asp Ser Ala Thr Glu Phe Leu Phe Gly Glu
210 215 220

Ser Ala Glu Ser Leu Arg Asp Glu Ser Ile Gly Leu Thr Pro Thr Thr
225 230 235 240

Lys Asp Phe Asp Gly Arg Arg Asp Phe Ala Asp Ala Phe Asn Tyr Ser
 245 250 255

Gln Thr Tyr Gln Ala Tyr Arg Phe Leu Leu Gln Gln Met Tyr Trp Ile
 260 265 270

Leu Asn Gly Ser Glu Phe Arg Lys Ser Ile Ala Val Val His Lys Phe
 275 280 285

Ala Asp His Tyr Val Gln Lys Ala Leu Glu Leu Thr Asp Asp Asp Leu
 290 295 300

Gln Lys Gln Asp Gly Tyr Val Phe Leu Tyr Glu Leu Ala Lys Gln Thr
 305 310 315 320

Arg Asp Pro Lys Val Leu Arg Asp Gln Leu Leu Asn Ile Leu Val Ala
 325 330 335

Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Val Phe Tyr Glu Leu
 340 345 350

Ser Arg Asn Pro Glu Val Phe Ala Lys Leu Arg Glu Glu Val Glu Asn
 355 360 365

Arg Phe Gly Leu Gly Glu Glu Ala Arg Val Glu Glu Ile Ser Phe Glu
 370 375 380

Ser Leu Lys Ser Cys Glu Tyr Leu Lys Ala Val Ile Asn Glu Thr Leu
 385 390 395 400

Arg Leu Tyr Pro Ser Val Pro His Asn Phe Arg Val Ala Thr Arg Asn
 405 410 415

Thr Thr Leu Pro Arg Gly Gly Gly Glu Asp Gly Tyr Ser Pro Ile Val
 420 425 430

Val Lys Lys Gly Gln Val Val Met Tyr Thr Val Ile Ala Thr His Arg
 435 440 445

Asp Pro Ser Ile Tyr Gly Ala Asp Ala Asp Val Phe Arg Pro Glu Arg
 450 455 460

Trp Phe Glu Pro Glu Thr Arg Lys Leu Gly Trp Ala Tyr Val Pro Phe
465 470 475 480

Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu
485 490 495

Ala Ser Tyr Val Thr Val Arg Leu Leu Gln Glu Phe Ala His Leu Ser
500 505 510

Met Asp Pro Asp Thr Glu Tyr Pro Pro Lys Leu Gln Asn Thr Leu Thr
515 520 525

Leu Ser Leu Phe Asp Gly Ala Asp Val Arg Met Tyr
530 535 540

<210> 99
<211> 540
<212> PRT
<213> CANDIDATROPICALIS

<400> 99

Met Ser Ser Ser Pro Ser Phe Ala Gln Glu Val Leu Ala Thr Thr Ser
1 5 10 15

Pro Tyr Ile Glu Tyr Phe Leu Asp Asn Tyr Thr Arg Trp Tyr Tyr Phe
20 25 30

Ile Pro Leu Val Leu Leu Ser Leu Asn Phe Ile Ser Leu Leu His Thr
35 40 45

Lys Tyr Leu Glu Arg Arg Phe His Ala Lys Pro Leu Gly Asn Val Val
50 55 60

Leu Asp Pro Thr Phe Gly Ile Ala Thr Pro Leu Ile Leu Ile Tyr Leu
65 70 75 80

Lys Ser Lys Gly Thr Val Met Lys Phe Ala Trp Ser Phe Trp Asn Asn
85 90 95

Lys Tyr Ile Val Lys Asp Pro Lys Tyr Lys Thr Thr Gly Leu Arg Ile
100 105 110

Val Gly Leu Pro Leu Ile Glu Thr Ile Asp Pro Glu Asn Ile Lys Ala
115 120 125

Val Leu Ala Thr Gln Phe Asn Asp Phe Ser Leu Gly Thr Arg His Asp
 130 135 140

Phe Leu Tyr Ser Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Ala
 145 150 155 160

Gly Trp Lys His Ser Arg Thr Met Leu Arg Pro Gln Phe Ala Arg Glu
 165 170 175

Gln Val Ser His Val Lys Leu Leu Glu Pro His Val Gln Val Phe Phe
 180 185 190

Lys His Val Arg Lys His Arg Gly Gln Thr Phe Asp Ile Gln Glu Leu
 195 200 205

Phe Phe Arg Leu Thr Val Asp Ser Ala Thr Glu Phe Leu Phe Gly Glu
 210 215 220

Ser Ala Glu Ser Leu Arg Asp Asp Ser Val Gly Leu Thr Pro Thr Thr
 225 230 235 240

Lys Asp Phe Glu Gly Arg Gly Asp Phe Ala Asp Ala Phe Asn Tyr Ser
 245 250 255

Gln Thr Tyr Gln Ala Tyr Arg Phe Leu Leu Gln Gln Met Tyr Trp Ile
 260 265 270

Leu Asn Gly Ala Glu Phe Arg Lys Ser Ile Ala Ile Val His Lys Phe
 275 280 285

Ala Asp His Tyr Val Gln Lys Ala Leu Glu Leu Thr Asp Asp Asp Leu
 290 295 300

Gln Lys Gln Asp Gly Tyr Val Phe Leu Tyr Glu Leu Ala Lys Gln Thr
 305 310 315 320

Arg Asp Pro Lys Val Leu Arg Asp Gln Leu Leu Asn Ile Leu Val Ala
 325 330 335

Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Val Phe Tyr Glu Leu
 340 345 350

Ser Arg Asn Pro Glu Val Phe Ala Lys Leu Arg Glu Glu Val Glu Asn
 355 360 365

Arg Phe Gly Leu Gly Glu Glu Ala Arg Val Glu Glu Ile Ser Phe Glu
 370 375 380

Ser Leu Lys Ser Cys Glu Tyr Leu Lys Ala Val Ile Asn Glu Ala Leu
 385 390 395 400

Arg Leu Tyr Pro Ser Val Pro His Asn Phe Arg Val Ala Thr Arg Asn
 405 410 415

Thr Thr Leu Pro Arg Gly Gly Gly Lys Asp Gly Cys Ser Pro Ile Val
 420 425 430

Val Lys Lys Gly Gln Val Val Met Tyr Thr Val Ile Gly Thr His Arg
 435 440 445

Asp Pro Ser Ile Tyr Gly Ala Asp Ala Asp Val Phe Arg Pro Glu Arg
 450 455 460

Trp Phe Glu Pro Glu Thr Arg Lys Leu Gly Trp Ala Tyr Val Pro Phe
 465 470 475 480

Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu
 485 490 495

Ala Ser Tyr Val Thr Val Arg Leu Leu Gln Glu Phe Gly Asn Leu Ser
 500 505 510

Leu Asp Pro Asn Ala Glu Tyr Pro Pro Lys Leu Gln Asn Thr Leu Thr
 515 520 525

Leu Ser Leu Phe Asp Gly Ala Asp Val Arg Met Phe
 530 535 540

<210> 100
 <211> 517
 <212> PRT
 <213> CANDIDATROPICALIS

<400> 100

Met Ile Glu Gln Leu Leu Glu Tyr Trp Tyr Val Val Val Pro Val Leu
 1 5 10 15

Tyr Ile Ile Lys Gln Leu Leu Ala Tyr Thr Lys Thr Arg Val Leu Met
 20 25 30

Lys Lys Leu Gly Ala Ala Pro Val Thr Asn Lys Leu Tyr Asp Asn Ala
 35 40 45

Phe Gly Ile Val Asn Gly Trp Lys Ala Leu Gln Phe Lys Lys Glu Gly
 50 55 60

Arg Ala Gln Glu Tyr Asn Asp Tyr Lys Phe Asp His Ser Lys Asn Pro
 65 70 75 80

Ser Val Gly Thr Tyr Val Ser Ile Leu Phe Gly Thr Arg Ile Val Val
 85 90 95

Thr Lys Asp Pro Glu Asn Ile Lys Ala Ile Leu Ala Thr Gln Phe Gly
 100 105 110

Asp Phe Ser Leu Gly Lys Arg His Thr Leu Phe Lys Pro Leu Leu Gly
 115 120 125

Asp Gly Ile Phe Thr Leu Asp Gly Glu Gly Trp Lys His Ser Arg Ala
 130 135 140

Met Leu Arg Pro Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser
 145 150 155 160

Leu Glu Pro His Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys
 165 170 175

Gly Glu Tyr Phe Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp
 180 185 190

Ser Ala Thr Glu Phe Leu Phe Gly Glu Ser Val His Ser Leu Lys Asp
 195 200 205

Glu Ser Ile Gly Ile Asn Gln Asp Asp Ile Asp Phe Ala Gly Arg Lys
 210 215 220

Asp Phe Ala Glu Ser Phe Asn Lys Ala Gln Glu Tyr Leu Ala Ile Arg
 225 230 235 240

Thr Leu Val Gln Thr Phe Tyr Trp Leu Val Asn Asn Lys Glu Phe Arg
245 250 255

Asp Cys Thr Lys Leu Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys
260 265 270

Ala Leu Asp Ala Ser Pro Glu Glu Leu Glu Lys Gln Ser Gly Tyr Val
275 280 285

Phe Leu Tyr Glu Leu Val Lys Gln Thr Arg Asp Pro Asn Val Leu Arg
290 295 300

Asp Gln Ser Leu Asn Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly
305 310 315 320

Leu Leu Ser Phe Ala Val Phe Glu Leu Ala Arg His Pro Glu Ile Trp
325 330 335

Ala Lys Leu Arg Glu Glu Ile Glu Gln Gln Phe Gly Leu Gly Glu Asp
340 345 350

Ser Arg Val Glu Glu Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr
355 360 365

Leu Lys Ala Phe Leu Asn Glu Thr Leu Arg Ile Tyr Pro Ser Val Pro
370 375 380

Arg Asn Phe Arg Ile Ala Thr Lys Asn Thr Thr Leu Pro Arg Gly Gly
385 390 395 400

Gly Ser Asp Gly Thr Ser Pro Ile Leu Ile Gln Lys Gly Glu Ala Val
405 410 415

Ser Tyr Gly Ile Asn Ser Thr His Leu Asp Pro Val Tyr Tyr Gly Pro
420 425 430

Asp Ala Ala Glu Phe Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Lys
435 440 445

Lys Leu Gly Trp Ala Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys
450 455 460

Leu Gly Gln Gln Phe Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg
465 470 475 480

Leu Val Gln Glu Phe Ser His Val Arg Leu Asp Pro Asp Glu Val Tyr
485 490 495

Pro Pro Lys Arg Leu Thr Asn Leu Thr Met Cys Leu Gln Asp Gly Ala
500 505 510

Ile Val Lys Phe Asp
515

<210> 101

<211> 517

<212> PRT

<213> CANDIDATROPICALIS

<400> 101

Met Ile Glu Gln Ile Leu Glu Tyr Trp Tyr Ile Val Val Pro Val Leu
1 5 10 15

Tyr Ile Ile Lys Gln Leu Ile Ala Tyr Ser Lys Thr Arg Val Leu Met
20 25 30

Lys Gln Leu Gly Ala Ala Pro Ile Thr Asn Gln Leu Tyr Asp Asn Val
35 40 45

Phe Gly Ile Val Asn Gly Trp Lys Ala Leu Gln Phe Lys Lys Glu Gly
50 55 60

Arg Ala Gln Glu Tyr Asn Asp His Lys Phe Asp Ser Ser Lys Asn Pro
65 70 75 80

Ser Val Gly Thr Tyr Val Ser Ile Leu Phe Gly Thr Lys Ile Val Val
85 90 95

Thr Lys Asp Pro Glu Asn Ile Lys Ala Ile Leu Ala Thr Gln Phe Gly
100 105 110

Asp Phe Ser Leu Gly Lys Arg His Ala Leu Phe Lys Pro Leu Leu Gly
115 120 125

Asp Gly Ile Phe Thr Leu Asp Gly Glu Gly Trp Lys His Ser Arg Ser
130 135 140

Met Leu Arg Pro Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser
145 150 155 160

Leu Glu Pro His Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys
165 170 175

Gly Glu Tyr Phe Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp
180 185 190

Ser Ala Thr Glu Phe Leu Phe Gly Glu Ser Val His Ser Leu Lys Asp
195 200 205

Glu Thr Ile Gly Ile Asn Gln Asp Asp Ile Asp Phe Ala Gly Arg Lys
210 215 220

Asp Phe Ala Glu Ser Phe Asn Lys Ala Gln Glu Tyr Leu Ser Ile Arg
225 230 235 240

Ile Leu Val Gln Thr Phe Tyr Trp Leu Ile Asn Asn Lys Glu Phe Arg
245 250 255

Asp Cys Thr Lys Leu Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys
260 265 270

Ala Leu Asp Ala Thr Pro Glu Glu Leu Glu Lys Gln Gly Gly Tyr Val
275 280 285

Phe Leu Tyr Glu Leu Val Lys Gln Thr Arg Asp Pro Lys Val Leu Arg
290 295 300

Asp Gln Ser Leu Asn Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly
305 310 315 320

Leu Leu Ser Phe Ala Val Phe Glu Leu Ala Arg Asn Pro His Ile Trp
325 330 335

Ala Lys Leu Arg Glu Glu Ile Glu Gln Gln Phe Gly Leu Gly Glu Asp
340 345 350

Ser Arg Val Glu Glu Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr
355 360 365

Leu Lys Ala Phe Leu Asn Glu Thr Leu Arg Val Tyr Pro Ser Val Pro
 370 375 380

Arg Asn Phe Arg Ile Ala Thr Lys Asn Thr Thr Leu Pro Arg Gly Gly
 385 390 395 400

Gly Pro Asp Gly Thr Gln Pro Ile Leu Ile Gln Lys Gly Glu Gly Val
 405 410 415

Ser Tyr Gly Ile Asn Ser Thr His Leu Asp Pro Val Tyr Tyr Gly Pro
 420 425 430

Asp Ala Ala Glu Phe Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Arg
 435 440 445

Lys Leu Gly Trp Ala Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys
 450 455 460

Leu Gly Gln Gln Phe Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg
 465 470 475 480

Leu Val Gln Glu Phe Ser His Ile Arg Leu Asp Pro Asp Glu Val Tyr
 485 490 495

Pro Pro Lys Arg Leu Thr Asn Leu Thr Met Cys Leu Gln Asp Gly Ala
 500 505 510

Ile Val Lys Phe Asp
 515

<210> 102

<211> 512

<212> PRT

<213> CANDIDATROPICALIS

<400> 102

Met Leu Asp Gln Ile Leu His Tyr Trp Tyr Ile Val Leu Pro Leu Leu
 1 5 10 15

Ala Ile Ile Asn Gln Ile Val Ala His Val Arg Thr Asn Tyr Leu Met
 20 25 30

Lys Lys Leu Gly Ala Lys Pro Phe Thr His Val Gln Arg Asp Gly Trp
 35 40 45

Leu Gly Phe Lys Phe Gly Arg Glu Phe Leu Lys Ala Lys Ser Ala Gly
50 55 60

Arg Leu Val Asp Leu Ile Ile Ser Arg Phe His Asp Asn Glu Asp Thr
65 70 75 80

Phe Ser Ser Tyr Ala Phe Gly Asn His Val Val Phe Thr Arg Asp Pro
85 90 95

Glu Asn Ile Lys Ala Leu Leu Ala Thr Gln Phe Gly Asp Phe Ser Leu
100 105 110

Gly Ser Arg Val Lys Phe Phe Lys Pro Leu Leu Gly Tyr Gly Ile Phe
115 120 125

Thr Leu Asp Ala Glu Gly Trp Lys His Ser Arg Ala Met Leu Arg Pro
130 135 140

Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser Leu Glu Pro His
145 150 155 160

Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys Gly Glu Tyr Phe
165 170 175

Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp Ser Ala Thr Glu
180 185 190

Phe Leu Phe Gly Glu Ser Val His Ser Leu Lys Asp Glu Glu Ile Gly
195 200 205

Tyr Asp Thr Lys Asp Met Ser Glu Glu Arg Arg Arg Phe Ala Asp Ala
210 215 220

Phe Asn Lys Ser Gln Val Tyr Val Ala Thr Arg Val Ala Leu Gln Asn
225 230 235 240

Leu Tyr Trp Leu Val Asn Asn Lys Glu Phe Lys Glu Cys Asn Asp Ile
245 250 255

Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys Ala Leu Asp Ala Thr
260 265 270

Pro Glu Glu Leu Glu Lys Gln Gly Gly Tyr Val Phe Leu Tyr Glu Leu
 275 280 285

Val Lys Gln Thr Arg Asp Pro Lys Val Leu Arg Asp Gln Ser Leu Asn
 290 295 300

Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Ala
 305 310 315 320

Val Phe Glu Leu Ala Arg Asn Pro His Ile Trp Ala Lys Leu Arg Glu
 325 330 335

Glu Ile Glu Gln Gln Phe Gly Leu Gly Glu Asp Ser Arg Val Glu Glu
 340 345 350

Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr Leu Lys Ala Val Leu
 355 360 365

Asn Glu Thr Leu Arg Leu His Pro Ser Val Pro Arg Asn Ala Arg Phe
 370 375 380

Ala Ile Lys Asp Thr Thr Leu Pro Arg Gly Gly Gly Pro Asn Gly Lys
 385 390 395 400

Asp Pro Ile Leu Ile Arg Lys Asp Glu Val Val Gln Tyr Ser Ile Ser
 405 410 415

Ala Thr Gln Thr Asn Pro Ala Tyr Tyr Gly Ala Asp Ala Ala Asp Phe
 420 425 430

Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Arg Asn Leu Gly Trp Ala
 435 440 445

Phe Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe
 450 455 460

Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg Leu Val Gln Glu Phe
 465 470 475 480

Pro Asn Leu Ser Gln Asp Pro Glu Thr Lys Tyr Pro Pro Pro Arg Leu
 485 490 495

Ala His Leu Thr Met Cys Leu Phe Asp Gly Ala His Val Lys Met Ser
 500 505 510

<210> 103
 <211> 512
 <212> PRT
 <213> CANDIDATROPICALIS

<400> 103

Met Leu Asp Gln Ile Phe His Tyr Trp Tyr Ile Val Leu Pro Leu Leu
 1 5 10 15

Val Ile Ile Lys Gln Ile Val Ala His Ala Arg Thr Asn Tyr Leu Met
 20 25 30

Lys Lys Leu Gly Ala Lys Pro Phe Thr His Val Gln Leu Asp Gly Trp
 35 40 45

Phe Gly Phe Lys Phe Gly Arg Glu Phe Leu Lys Ala Lys Ser Ala Gly
 50 55 60

Arg Gln Val Asp Leu Ile Ile Ser Arg Phe His Asp Asn Glu Asp Thr
 65 70 75 80

Phe Ser Ser Tyr Ala Phe Gly Asn His Val Val Phe Thr Arg Asp Pro
 85 90 95

Glu Asn Ile Lys Ala Leu Leu Ala Thr Gln Phe Gly Asp Phe Ser Leu
 100 105 110

Gly Ser Arg Val Lys Phe Phe Lys Pro Leu Leu Gly Tyr Gly Ile Phe
 115 120 125

Thr Leu Asp Gly Glu Gly Trp Lys His Ser Arg Ala Met Leu Arg Pro
 130 135 140

Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser Leu Glu Pro His
 145 150 155 160

Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys Gly Glu Tyr Phe
 165 170 175

Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp Ser Ala Thr Glu
 180 185 190

Phe Leu Phe Gly Glu Ser Val His Ser Leu Arg Asp Glu Glu Ile Gly
 195 200 205

Tyr Asp Thr Lys Asp Met Ala Glu Glu Arg Arg Lys Phe Ala Asp Ala
 210 215 220

Phe Asn Lys Ser Gln Val Tyr Leu Ser Thr Arg Val Ala Leu Gln Thr
 225 230 235 240

Leu Tyr Trp Leu Val Asn Asn Lys Glu Phe Lys Glu Cys Asn Asp Ile
 245 250 255

Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys Ala Leu Asp Ala Thr
 260 265 270

Pro Glu Glu Leu Glu Lys Gln Gly Gly Tyr Val Phe Leu Tyr Glu Leu
 275 280 285

Ala Lys Gln Thr Lys Asp Pro Asn Val Leu Arg Asp Gln Ser Leu Asn
 290 295 300

Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Ala
 305 310 315 320

Val Phe Glu Leu Ala Arg Asn Pro His Ile Trp Ala Lys Leu Arg Glu
 325 330 335

Glu Ile Glu Ser His Phe Gly Leu Gly Glu Asp Ser Arg Val Glu Glu
 340 345 350

Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr Leu Lys Ala Val Leu
 355 360 365

Asn Glu Thr Leu Arg Leu His Pro Ser Val Pro Arg Asn Ala Arg Phe
 370 375 380

Ala Ile Lys Asp Thr Thr Leu Pro Arg Gly Gly Gly Pro Asn Gly Lys
 385 390 395 400

Asp Pro Ile Leu Ile Arg Lys Asn Glu Val Val Gln Tyr Ser Ile Ser
 405 410 415

Ala Thr Gln Thr Asn Pro Ala Tyr Tyr Gly Ala Asp Ala Ala Asp Phe
 420 425 430

Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Arg Asn Leu Gly Trp Ala
 435 440 445

Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe
 450 455 460

Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg Leu Val Gln Glu Phe
 465 470 475 480

Pro Ser Leu Ser Gln Asp Pro Glu Thr Glu Tyr Pro Pro Pro Arg Leu
 485 490 495

Ala His Leu Thr Met Cys Leu Phe Asp Gly Ala Tyr Val Lys Met Gln
 500 505 510

<210> 104

<211> 499

<212> PRT

<213> CANDIDATROPICALIS

<400> 104

Met Ala Ile Ser Ser Leu Leu Ser Trp Asp Val Ile Cys Val Val Phe
 1 5 10 15

Ile Cys Val Cys Val Tyr Phe Gly Tyr Glu Tyr Cys Tyr Thr Lys Tyr
 20 25 30

Leu Met His Lys His Gly Ala Arg Glu Ile Glu Asn Val Ile Asn Asp
 35 40 45

Gly Phe Phe Gly Phe Arg Leu Pro Leu Leu Leu Met Arg Ala Ser Asn
 50 55 60

Glu Gly Arg Leu Ile Glu Phe Ser Val Lys Arg Phe Glu Ser Ala Pro
 65 70 75 80

His Pro Gln Asn Lys Thr Leu Val Asn Arg Ala Leu Ser Val Pro Val
 85 90 95

Ile Leu Thr Lys Asp Pro Val Asn Ile Lys Ala Met Leu Ser Thr Gln
 100 105 110

Phe Asp Asp Phe Ser Leu Gly Leu Arg Leu His Gln Phe Ala Pro Leu
 115 120 125

Leu Gly Lys Gly Ile Phe Thr Leu Asp Gly Pro Glu Trp Lys Gln Ser
 130 135 140

Arg Ser Met Leu Arg Pro Gln Phe Ala Lys Asp Arg Val Ser His Ile
 145 150 155 160

Leu Asp Leu Glu Pro His Phe Val Leu Leu Arg Lys His Ile Asp Gly
 165 170 175

His Asn Gly Asp Tyr Phe Asp Ile Gln Glu Leu Tyr Phe Arg Phe Ser
 180 185 190

Met Asp Val Ala Thr Gly Phe Leu Phe Gly Glu Ser Val Gly Ser Leu
 195 200 205

Lys Asp Glu Asp Ala Arg Phe Leu Glu Ala Phe Asn Glu Ser Gln Lys
 210 215 220

Tyr Leu Ala Thr Arg Ala Thr Leu His Glu Leu Tyr Phe Leu Cys Asp
 225 230 235 240

Gly Phe Arg Phe Arg Gln Tyr Asn Lys Val Val Arg Lys Phe Cys Ser
 245 250 255

Gln Cys Val His Lys Ala Leu Asp Val Ala Pro Glu Asp Thr Ser Glu
 260 265 270

Tyr Val Phe Leu Arg Glu Leu Val Lys His Thr Arg Asp Pro Val Val
 275 280 285

Leu Gln Asp Gln Ala Leu Asn Val Leu Leu Ala Gly Arg Asp Thr Thr
 290 295 300

Ala Ser Leu Leu Ser Phe Ala Thr Phe Glu Leu Ala Arg Asn Asp His
 305 310 315 320

Met Trp Arg Lys Leu Arg Glu Glu Val Ile Leu Thr Met Gly Pro Ser
 325 330 335

Ser Asp Glu Ile Thr Val Ala Gly Leu Lys Ser Cys Arg Tyr Leu Lys
 340 345 350

Ala Ile Leu Asn Glu Thr Leu Arg Leu Tyr Pro Ser Val Pro Arg Asn
 355 360 365

Ala Arg Phe Ala Thr Arg Asn Thr Thr Leu Pro Arg Gly Gly Gly Pro
 370 375 380

Asp Gly Ser Phe Pro Ile Leu Ile Arg Lys Gly Gln Pro Val Gly Tyr
 385 390 395 400

Phe Ile Cys Ala Thr His Leu Asn Glu Lys Val Tyr Gly Asn Asp Ser
 405 410 415

His Val Phe Arg Pro Glu Arg Trp Ala Ala Leu Glu Gly Lys Ser Leu
 420 425 430

Gly Trp Ser Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ser Cys Leu Gly
 435 440 445

Gln Gln Phe Ala Ile Leu Glu Ala Ser Tyr Val Leu Ala Arg Leu Thr
 450 455 460

Gln Cys Tyr Thr Thr Ile Gln Leu Arg Thr Thr Glu Tyr Pro Pro Lys
 465 470 475 480

Lys Leu Val His Leu Thr Met Ser Leu Leu Asn Gly Val Tyr Ile Arg
 485 490 495

Thr Arg Thr

<210> 105
 <211> 1712
 <212> DNA
 <213> Candida tropicalis

<400> 105
 ggtaccgagc tcacgagttt tgggattttc gagtttggat tgtttccttt gttgattgaa 60
 ttgacgaaac cagaggtttt caagacagat aagattgggt ttatcaaaac gcagtttgaa 120
 atattccagt tggtttccaa gatattctga agaagattga cgatttgaaa tttgaagaag 180

<400> 106

Met Val Ser Thr Lys Thr Tyr Thr Glu Arg Ala Ser Ala His Pro Ser
1 5 10 15

Lys Val Ala Gln Arg Leu Phe Arg Leu Met Glu Ser Lys Lys Thr Asn
20 25 30

Leu Cys Ala Ser Ile Asp Val Thr Thr Thr Ala Glu Phe Leu Ser Leu
35 40 45

Ile Asp Lys Leu Gly Pro His Ile Cys Leu Val Lys Thr His Ile Asp
50 55 60

Ile Ile Ser Asp Phe Ser Tyr Glu Gly Thr Ile Glu Pro Leu Leu Val
65 70 75 80

Leu Ala Glu Arg His Gly Phe Leu Ile Phe Glu Asp Arg Lys Phe Ala
85 90 95

Asp Ile Gly Asn Thr Val Met Leu Gln Tyr Thr Ser Gly Val Tyr Arg
100 105 110

Ile Ala Ala Trp Ser Asp Ile Thr Asn Ala His Gly Val Thr Gly Lys
115 120 125

Gly Val Val Glu Gly Leu Lys Arg Gly Ala Glu Gly Val Glu Lys Glu
130 135 140

Arg Gly Val Leu Met Leu Ala Glu Leu Ser Ser Lys Gly Ser Leu Ala
145 150 155 160

His Gly Glu Tyr Thr Arg Glu Thr Ile Glu Ile Ala Lys Ser Asp Arg
165 170 175

Glu Phe Val Ile Gly Phe Ile Ala Gln Arg Asp Met Gly Gly Arg Glu
180 185 190

Glu Gly Phe Asp Trp Ile Ile Met Thr Pro Gly Val Gly Leu Asp Asp
195 200 205

Lys Gly Asp Ala Leu Gly Gln Gln Tyr Arg Thr Val Asp Glu Val Val
210 215 220

Leu Thr Gly Thr Asp Val Ile Ile Val Gly Arg Gly Leu Phe Gly Lys
 225 230 235 240

Gly Arg Asp Pro Glu Val Glu Gly Lys Arg Tyr Arg Asp Ala Gly Trp
 245 250 255

Lys Ala Tyr Leu Lys Arg Thr Gly Gln Leu Glu
 260 265

<210> 107
 <211> 473
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 107
 gtcaaagcaa attggtggcc caagcagact cttggaccac cgttgaatgg aacataagcc 60
 cagcccaact tcttagtaga tgggttcaaac catctttctg gtctgaagtc gttagcgtcc 120
 ttaccgtagt attcttccaa acggtgggtc ttgtagacaa cgtaagcaac agtggagcct 180
 ttaggaatgt agattgggtc ggtaccgtta gcaccaccac ctcttggcaa agtgggtgtct 240
 ctggtggcgg ttctaaagtt gacaggaaca gatgggtaca tacgcaaggt ttcgttaagg 300
 atagccttca agtattcaca tctcttcaag gcttcgaaag taatttcttc aacgcgggag 360
 tcttcaccaa caccaaagtt aacttcgatt tcttctctca acttggacca catctctggg 420
 tgtctagcca attcaaaca agcaaaggac aacaaacccg cgggtggtgtc tct 473

<210> 108
 <211> 540
 <212> DNA
 <213> Candida tropicalis

<400> 108
 tactaacttg ttgaggatct tataaccata cagcaacacg gtcacaacat gtagtagttt 60
 gttgaggaac gtatgtgttt ctgagcgcag aactactttt tcaaccacg acgaggtcag 120
 tgtttggtca acatgctgtt gcgaaagcca tagcagttac ctaccttccg agaggtcaag 180
 ttctttctcc cgtcccagat tctcatgttg ctaatgttca aactggtgag gttcttgggt 240
 tcgcaccctg ggatgcagtc ataagaaaag ccgtggctct agcagcactg gtttctaggt 300
 ctcttatagt ttcgataaaa ccgttgggtc aaaccactaa aaagaaaccc gttctccgtg 360

tgagaaaaat tcggaaacaa tccactaccc tagaagtgtg acctgccgct tccgaccttc 420
 gtgtcgtctc ggtacaactc tggtgtcaaa cgggtctcttg ttcaacgagt aactgcagc 480
 aaccttggtg tgaagggtcaa caacttcttc gtataagaat tcgtgttccc acttatgaaa 540

<210> 109
 <211> 29
 <212> DNA
 <213> Bacteriophage T7

<400> 109
 ggatcctaatacgaactcactatagggagg 29

<210> 110
 <211> 523
 <212> PRT
 <213> CANDIDATROPICALIS

<400> 110

Met Ala Thr Gln Glu Ile Ile Asp Ser Val Leu Pro Tyr Leu Thr Lys
 1 5 10 15

Trp Tyr Thr Val Ile Thr Ala Ala Val Leu Val Phe Leu Ile Ser Thr
 20 25 30

Asn Ile Lys Asn Tyr Val Lys Ala Lys Lys Leu Lys Cys Val Asp Pro
 35 40 45

Pro Tyr Leu Lys Asp Ala Gly Leu Thr Gly Ile Ser Ser Leu Ile Ala
 50 55 60

Ala Ile Lys Ala Lys Asn Asp Gly Arg Leu Ala Asn Phe Ala Asp Glu
 65 70 75 80

Val Phe Asp Glu Tyr Pro Asn His Thr Phe Tyr Leu Ser Val Ala Gly
 85 90 95

Ala Leu Lys Ile Val Met Thr Val Asp Pro Glu Asn Ile Lys Ala Val
 100 105 110

Leu Ala Thr Gln Phe Thr Asp Phe Ser Leu Gly Thr Arg His Ala His
 115 120 125

Phe Ala Pro Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Glu Gly
 130 135 140

Trp Lys His Ser Arg Ala Met Leu Arg Pro Gln Phe Ala Arg Asp Gln
145 150 155 160

Ile Gly His Val Lys Ala Leu Glu Pro His Ile Gln Ile Met Ala Lys
165 170 175

Gln Ile Lys Leu Asn Gln Gly Lys Thr Phe Asp Ile Gln Glu Leu Phe
180 185 190

Phe Arg Phe Thr Val Asp Thr Ala Thr Glu Phe Leu Phe Gly Glu Ser
195 200 205

Val His Ser Leu Tyr Asp Glu Lys Leu Gly Ile Pro Thr Pro Asn Glu
210 215 220

Ile Pro Gly Arg Glu Asn Phe Ala Ala Ala Phe Asn Val Ser Gln His
225 230 235 240

Tyr Leu Ala Thr Arg Ser Tyr Ser Gln Thr Phe Tyr Phe Leu Thr Asn
245 250 255

Pro Lys Glu Phe Arg Asp Cys Asn Ala Lys Val His His Leu Ala Lys
260 265 270

Tyr Phe Val Asn Lys Ala Leu Asn Phe Thr Pro Glu Glu Leu Glu Glu
275 280 285

Lys Ser Lys Ser Gly Tyr Val Phe Leu Tyr Glu Leu Val Lys Gln Thr
290 295 300

Arg Asp Pro Lys Val Leu Gln Asp Gln Leu Leu Asn Ile Met Val Ala
305 310 315 320

Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Ala Leu Phe Glu Leu
325 330 335

Ala Arg His Pro Glu Met Trp Ser Lys Leu Arg Glu Glu Ile Glu Val
340 345 350

Asn Phe Gly Val Gly Glu Asp Ser Arg Val Glu Glu Ile Thr Phe Glu
355 360 365

Ala Leu Lys Arg Cys Glu Tyr Leu Lys Ala Ile Leu Asn Glu Thr Leu
 370 375 380

Arg Met Tyr Pro Ser Val Pro Val Asn Phe Arg Thr Ala Thr Arg Asp
 385 390 395 400

Thr Thr Leu Pro Arg Gly Gly Gly Ala Asn Gly Thr Asp Pro Ile Tyr
 405 410 415

Ile Pro Lys Gly Ser Thr Val Ala Tyr Val Val Tyr Lys Thr His Arg
 420 425 430

Leu Glu Glu Tyr Tyr Gly Lys Asp Ala Asn Asp Phe Arg Pro Glu Arg
 435 440 445

Trp Phe Glu Pro Ser Thr Lys Lys Leu Gly Trp Ala Tyr Val Pro Phe
 450 455 460

Asn Gly Gly Pro Arg Val Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu
 465 470 475 480

Ala Ser Tyr Val Ile Thr Arg Leu Ala Gln Met Phe Glu Thr Val Ser
 485 490 495

Ser Asp Pro Gly Leu Glu Tyr Pro Pro Pro Lys Cys Ile His Leu Thr
 500 505 510

Met Ser His Asn Asp Gly Val Phe Val Lys Met
 515 520

<210> 111

<211> 540

<212> PRT

<213> CANDIDATROPICALIS

<400> 111

Met Ser Ser Ser Pro Ser Phe Ala Gln Glu Val Leu Ala Thr Thr Ser
 1 5 10 15

Pro Tyr Ile Glu Tyr Phe Leu Asp Asn Tyr Thr Arg Trp Tyr Tyr Phe
 20 25 30

Ile Pro Leu Val Leu Leu Ser Leu Asn Phe Ile Ser Leu Leu His Thr
 35 40 45

Lys Tyr Leu Glu Arg Arg Phe His Ala Lys Pro Leu Gly Asn Val Val
 50 55 60

Leu Asp Pro Thr Phe Gly Ile Ala Thr Pro Leu Ile Leu Ile Tyr Leu
 65 70 75 80

Lys Ser Lys Gly Thr Val Met Lys Phe Ala Trp Ser Phe Trp Asn Asn
 85 90 95

Lys Tyr Ile Val Lys Asp Pro Lys Tyr Lys Thr Thr Gly Leu Arg Ile
 100 105 110

Val Gly Leu Pro Leu Ile Glu Thr Ile Asp Pro Glu Asn Ile Lys Ala
 115 120 125

Val Leu Ala Thr Gln Phe Asn Asp Phe Ser Leu Gly Thr Arg His Asp
 130 135 140

Phe Leu Tyr Ser Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly Ala
 145 150 155 160

Gly Trp Lys His Ser Arg Thr Met Leu Arg Pro Gln Phe Ala Arg Glu
 165 170 175

Gln Val Ser His Val Lys Leu Leu Glu Pro His Val Gln Val Phe Phe
 180 185 190

Lys His Val Arg Lys His Arg Gly Gln Thr Phe Asp Ile Gln Glu Leu
 195 200 205

Phe Phe Arg Leu Thr Val Asp Ser Ala Thr Glu Phe Leu Phe Gly Glu
 210 215 220

Ser Ala Glu Ser Leu Arg Asp Asp Ser Val Gly Leu Thr Pro Thr Thr
 225 230 235 240

Lys Asp Phe Glu Gly Arg Gly Asp Phe Ala Asp Ala Phe Asn Tyr Ser
 245 250 255

Gln Thr Tyr Gln Ala Tyr Arg Phe Leu Leu Gln Gln Met Tyr Trp Ile
 260 265 270

Leu Asn Gly Ala Glu Phe Arg Lys Ser Ile Ala Ile Val His Lys Phe
 275 280 285

Ala Asp His Tyr Val Gln Lys Ala Leu Glu Leu Thr Asp Asp Asp Leu
 290 295 300

Gln Lys Gln Asp Gly Tyr Val Phe Leu Tyr Glu Leu Ala Lys Gln Thr
 305 310 315 320

Arg Asp Pro Lys Val Leu Arg Asp Gln Leu Leu Asn Ile Leu Val Ala
 325 330 335

Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Val Phe Tyr Glu Leu
 340 345 350

Ser Arg Asn Pro Glu Val Phe Ala Lys Leu Arg Glu Glu Val Glu Asn
 355 360 365

Arg Phe Gly Leu Gly Glu Glu Ala Arg Val Glu Glu Ile Ser Phe Glu
 370 375 380

Ser Leu Lys Ser Cys Glu Tyr Leu Lys Ala Val Ile Asn Glu Ala Leu
 385 390 395 400

Arg Leu Tyr Pro Ser Val Pro His Asn Phe Arg Val Ala Thr Arg Asn
 405 410 415

Thr Thr Leu Pro Arg Gly Gly Gly Lys Asp Gly Cys Ser Pro Ile Val
 420 425 430

Val Lys Lys Gly Gln Val Val Met Tyr Thr Val Ile Gly Thr His Arg
 435 440 445

Asp Pro Ser Ile Tyr Gly Ala Asp Ala Asp Val Phe Arg Pro Glu Arg
 450 455 460

Trp Phe Glu Pro Glu Thr Arg Lys Leu Gly Trp Ala Tyr Val Pro Phe
 465 470 475 480

Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe Ala Leu Thr Glu
 485 490 495

Ala Ser Tyr Val Thr Val Arg Leu Leu Gln Glu Phe Gly Asn Leu Ser
500 505 510

Ser Asp Pro Asn Ala Glu Tyr Pro Pro Lys Leu Gln Asn Thr Leu Thr
515 520 525

Leu Ser Leu Phe Asp Gly Ala Asp Val Arg Met Phe
530 535 540

<210> 112
<211> 517
<212> PRT
<213> CANDIDATROPICALIS

<400> 112

Met Ile Glu Gln Leu Leu Glu Tyr Trp Tyr Val Val Val Pro Val Leu
1 5 10 15

Tyr Ile Ile Lys Gln Leu Leu Ala Tyr Thr Lys Thr Arg Val Leu Met
20 25 30

Lys Lys Leu Gly Ala Ala Pro Val Thr Asn Lys Leu Tyr Asp Asn Ala
35 40 45

Phe Gly Ile Val Asn Gly Trp Lys Ala Leu Gln Phe Lys Lys Glu Gly
50 55 60

Arg Ala Gln Glu Tyr Asn Asp Tyr Lys Phe Asp His Ser Lys Asn Pro
65 70 75 80

Ser Val Gly Thr Tyr Val Ser Ile Leu Phe Gly Thr Arg Ile Val Val
85 90 95

Thr Lys Asp Pro Glu Asn Ile Lys Ala Ile Leu Ala Thr Gln Phe Gly
100 105 110

Asp Phe Ser Leu Gly Lys Arg His Thr Leu Phe Lys Pro Leu Leu Gly
115 120 125

Asp Gly Ile Phe Thr Leu Asp Gly Glu Gly Trp Lys His Ser Arg Ala
130 135 140

Met Leu Arg Pro Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser
145 150 155 160

Leu Glu Pro His Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys
165 170 175

Gly Glu Tyr Phe Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp
180 185 190

Ser Ala Thr Glu Phe Leu Phe Gly Glu Ser Val His Ser Leu Lys Asp
195 200 205

Glu Ser Ile Gly Ile Asn Gln Asp Asp Ile Asp Phe Ala Gly Arg Lys
210 215 220

Asp Phe Ala Glu Ser Phe Asn Lys Ala Gln Glu Tyr Leu Ala Ile Arg
225 230 235 240

Thr Leu Val Gln Thr Phe Tyr Trp Leu Val Asn Asn Lys Glu Phe Arg
245 250 255

Asp Cys Thr Lys Ser Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys
260 265 270

Ala Leu Asp Ala Ser Pro Glu Glu Leu Glu Lys Gln Ser Gly Tyr Val
275 280 285

Phe Leu Tyr Glu Leu Val Lys Gln Thr Arg Asp Pro Asn Val Leu Arg
290 295 300

Asp Gln Ser Leu Asn Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly
305 310 315 320

Leu Leu Ser Phe Ala Val Phe Glu Leu Ala Arg His Pro Glu Ile Trp
325 330 335

Ala Lys Leu Arg Glu Glu Ile Glu Gln Gln Phe Gly Leu Gly Glu Asp
340 345 350

Ser Arg Val Glu Glu Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr
355 360 365

Leu Lys Ala Phe Leu Asn Glu Thr Leu Arg Ile Tyr Pro Ser Val Pro
370 375 380

Arg Asn Phe Arg Ile Ala Thr Lys Asn Thr Thr Leu Pro Arg Gly Gly
385 390 395 400

Gly Ser Asp Gly Thr Ser Pro Ile Leu Ile Gln Lys Gly Glu Ala Val
405 410 415

Ser Tyr Gly Ile Asn Ser Thr His Leu Asp Pro Val Tyr Tyr Gly Pro
420 425 430

Asp Ala Ala Glu Phe Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Lys
435 440 445

Lys Leu Gly Trp Ala Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys
450 455 460

Leu Gly Gln Gln Phe Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg
465 470 475 480

Leu Val Gln Glu Phe Ser His Val Arg Ser Asp Pro Asp Glu Val Tyr
485 490 495

Pro Pro Lys Arg Leu Thr Asn Leu Thr Met Cys Leu Gln Asp Gly Ala
500 505 510

Ile Val Lys Phe Asp
515

<210> 113

<211> 517

<212> PRT

<213> CANDIDATROPICALIS

<400> 113

Met Ile Glu Gln Ile Leu Glu Tyr Trp Tyr Ile Val Val Pro Val Leu
1 5 10 15

Tyr Ile Ile Lys Gln Leu Ile Ala Tyr Ser Lys Thr Arg Val Leu Met
20 25 30

Lys Gln Leu Gly Ala Ala Pro Ile Thr Asn Gln Leu Tyr Asp Asn Val
35 40 45

Phe Gly Ile Val Asn Gly Trp Lys Ala Leu Gln Phe Lys Lys Glu Gly
50 55 60

Arg Ala Gln Glu Tyr Asn Asp His Lys Phe Asp Ser Ser Lys Asn Pro
65 70 75 80

Ser Val Gly Thr Tyr Val Ser Ile Leu Phe Gly Thr Lys Ile Val Val
85 90 95

Thr Lys Asp Pro Glu Asn Ile Lys Ala Ile Leu Ala Thr Gln Phe Gly
100 105 110

Asp Phe Ser Leu Gly Lys Arg His Ala Leu Phe Lys Pro Leu Leu Gly
115 120 125

Asp Gly Ile Phe Thr Leu Asp Gly Glu Gly Trp Lys His Ser Arg Ser
130 135 140

Met Leu Arg Pro Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser
145 150 155 160

Leu Glu Pro His Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys
165 170 175

Gly Glu Tyr Phe Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp
180 185 190

Ser Ala Thr Glu Phe Leu Phe Gly Glu Ser Val His Ser Leu Lys Asp
195 200 205

Glu Thr Ile Gly Ile Asn Gln Asp Asp Ile Asp Phe Ala Gly Arg Lys
210 215 220

Asp Phe Ala Glu Ser Phe Asn Lys Ala Gln Glu Tyr Leu Ser Ile Arg
225 230 235 240

Ile Leu Val Gln Thr Phe Tyr Trp Leu Ile Asn Asn Lys Glu Phe Arg
245 250 255

Asp Cys Thr Lys Ser Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys
260 265 270

Ala Leu Asp Ala Thr Pro Glu Glu Leu Glu Lys Gln Gly Gly Tyr Val
275 280 285

Phe Leu Tyr Glu Leu Val Lys Gln Thr Arg Asp Pro Lys Val Leu Arg
 290 325 300

Asp Gln Ser Leu Asn Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly
 305 310 315 320

Leu Leu Ser Phe Ala Val Phe Glu Leu Ala Arg Asn Pro His Ile Trp
 325 330 335

Ala Lys Leu Arg Glu Glu Ile Glu Gln Gln Phe Gly Leu Gly Glu Asp
 340 345 350

Ser Arg Val Glu Glu Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr
 355 360 365

Leu Lys Ala Phe Leu Asn Glu Thr Leu Arg Val Tyr Pro Ser Val Pro
 370 375 380

Arg Asn Phe Arg Ile Ala Thr Lys Asn Thr Thr Leu Pro Arg Gly Gly
 385 390 395 400

Gly Pro Asp Gly Thr Gln Pro Ile Leu Ile Gln Lys Gly Glu Gly Val
 405 410 415

Ser Tyr Gly Ile Asn Ser Thr His Leu Asp Pro Val Tyr Tyr Gly Pro
 420 425 430

Asp Ala Ala Glu Phe Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Arg
 435 440 445

Lys Leu Gly Trp Ala Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys
 450 455 460

Leu Gly Gln Gln Phe Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg
 465 470 475 480

Leu Val Gln Glu Phe Ser His Ile Arg Ser Asp Pro Asp Glu Val Tyr
 485 490 495

Pro Pro Lys Arg Leu Thr Asn Leu Thr Met Cys Leu Gln Asp Gly Ala
 500 505 510

Ile Val Lys Phe Asp
515

<210> 114
<211> 512-
<212> PRT
<213> CANDIDATROPICALIS

<400> 114

Met Leu Asp Gln Ile Leu His Tyr Trp Tyr Ile Val Leu Pro Leu Leu
1 5 10 15

Ala Ile Ile Asn Gln Ile Val Ala His Val Arg Thr Asn Tyr Leu Met
20 25 30

Lys Lys Leu Gly Ala Lys Pro Phe Thr His Val Gln Arg Asp Gly Trp
35 40 45

Leu Gly Phe Lys Phe Gly Arg Glu Phe Leu Lys Ala Lys Ser Ala Gly
50 55 60

Arg Ser Val Asp Leu Ile Ile Ser Arg Phe His Asp Asn Glu Asp Thr
65 70 75 80

Phe Ser Ser Tyr Ala Phe Gly Asn His Val Val Phe Thr Arg Asp Pro
85 90 95

Glu Asn Ile Lys Ala Leu Leu Ala Thr Gln Phe Gly Asp Phe Ser Leu
100 105 110

Gly Ser Arg Val Lys Phe Phe Lys Pro Leu Leu Gly Tyr Gly Ile Phe
115 120 125

Thr Leu Asp Ala Glu Gly Trp Lys His Ser Arg Ala Met Leu Arg Pro
130 135 140

Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser Leu Glu Pro His
145 150 155 160

Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys Gly Glu Tyr Phe
165 170 175

Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp Ser Ala Thr Glu
180 185 190

Phe Leu Phe Gly Glu Ser Val His Ser Leu Lys Asp Glu Glu Ile Gly
 195 200 205

Tyr Asp Thr Lys Asp Met Ser Glu Glu Arg Arg Arg Phe Ala Asp Ala
 210 215 220

Phe Asn Lys Ser Gln Val Tyr Val Ala Thr Arg Val Ala Leu Gln Asn
 225 230 235 240

Leu Tyr Trp Leu Val Asn Asn Lys Glu Phe Lys Glu Cys Asn Asp Ile
 245 250 255

Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys Ala Leu Asp Ala Thr
 260 265 270

Pro Glu Glu Leu Glu Lys Gln Gly Gly Tyr Val Phe Leu Tyr Glu Leu
 275 280 285

Val Lys Gln Thr Arg Asp Pro Lys Val Leu Arg Asp Gln Ser Leu Asn
 290 295 300

Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Ala
 305 310 315 320

Val Phe Glu Leu Ala Arg Asn Pro His Ile Trp Ala Lys Leu Arg Glu
 325 330 335

Glu Ile Glu Gln Gln Phe Gly Leu Gly Glu Asp Ser Arg Val Glu Glu
 340 345 350

Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr Leu Lys Ala Val Leu
 355 360 365

Asn Glu Thr Leu Arg Leu His Pro Ser Val Pro Arg Asn Ala Arg Phe
 370 375 380

Ala Ile Lys Asp Thr Thr Leu Pro Arg Gly Gly Gly Pro Asn Gly Lys
 385 390 395 400

Asp Pro Ile Leu Ile Arg Lys Asp Glu Val Val Gln Tyr Ser Ile Ser
 405 410 415

Ala Thr Gln Thr Asn Pro Ala Tyr Tyr Gly Ala Asp Ala Ala Asp Phe
 420 425 430

Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Arg Asn Leu Gly Trp Ala
 435 440 445

Phe Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe
 450 455 460

Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg Leu Val Gln Glu Phe
 465 470 475 480

Pro Asn Leu Ser Gln Asp Pro Glu Thr Lys Tyr Pro Pro Pro Arg Leu
 485 490 495

Ala His Leu Thr Met Cys Leu Phe Asp Gly Ala His Val Lys Met Ser
 500 505 510

<210> 115

<211> 512

<212> PRT

<213> CANDIDATROPICALIS

<400> 115

Met Leu Asp Gln Ile Phe His Tyr Trp Tyr Ile Val Leu Pro Leu Leu
 1 5 10 15

Val Ile Ile Lys Gln Ile Val Ala His Ala Arg Thr Asn Tyr Leu Met
 20 25 30

Lys Lys Leu Gly Ala Lys Pro Phe Thr His Val Gln Leu Asp Gly Trp
 35 40 45

Phe Gly Phe Lys Phe Gly Arg Glu Phe Leu Lys Ala Lys Ser Ala Gly
 50 55 60

Arg Gln Val Asp Leu Ile Ile Ser Arg Phe His Asp Asn Glu Asp Thr
 65 70 75 80

Phe Ser Ser Tyr Ala Phe Gly Asn His Val Val Phe Thr Arg Asp Pro
 85 90 95

Glu Asn Ile Lys Ala Leu Leu Ala Thr Gln Phe Gly Asp Phe Ser Leu
 100 105 110

Gly Ser Arg Val Lys Phe Phe Lys Pro Leu Leu Gly Tyr Gly Ile Phe
 115 120 125

Thr Leu Asp Gly Glu Gly Trp Lys His Ser Arg Ala Met Leu Arg Pro
 130 135 140

Gln Phe Ala Arg Glu Gln Val Ala His Val Thr Ser Leu Glu Pro His
 145 150 155 160

Phe Gln Leu Leu Lys Lys His Ile Leu Lys His Lys Gly Glu Tyr Phe
 165 170 175

Asp Ile Gln Glu Leu Phe Phe Arg Phe Thr Val Asp Ser Ala Thr Glu
 180 185 190

Phe Leu Phe Gly Glu Ser Val His Ser Leu Arg Asp Glu Glu Ile Gly
 195 200 205

Tyr Asp Thr Lys Asp Met Ala Glu Glu Arg Arg Lys Phe Ala Asp Ala
 210 215 220

Phe Asn Lys Ser Gln Val Tyr Leu Ser Thr Arg Val Ala Leu Gln Thr
 225 230 235 240

Leu Tyr Trp Leu Val Asn Asn Lys Glu Phe Lys Glu Cys Asn Asp Ile
 245 250 255

Val His Lys Phe Thr Asn Tyr Tyr Val Gln Lys Ala Leu Asp Ala Thr
 260 265 270

Pro Glu Glu Leu Glu Lys Gln Gly Gly Tyr Val Phe Leu Tyr Glu Leu
 275 280 285

Ala Lys Gln Thr Lys Asp Pro Asn Val Leu Arg Asp Gln Ser Leu Asn
 290 295 300

Ile Leu Leu Ala Gly Arg Asp Thr Thr Ala Gly Leu Leu Ser Phe Ala
 305 310 315 320

Val Phe Glu Leu Ala Arg Asn Pro His Ile Trp Ala Lys Leu Arg Glu
 325 330 335

Glu Ile Glu Ser His Phe Gly Ser Gly Glu Asp Ser Arg Val Glu Glu
 340 345 350

Ile Thr Phe Glu Ser Leu Lys Arg Cys Glu Tyr Leu Lys Ala Val Leu
 355 360 365

Asn Glu Thr Leu Arg Leu His Pro Ser Val Pro Arg Asn Ala Arg Phe
 370 375 380

Ala Ile Lys Asp Thr Thr Leu Pro Arg Gly Gly Gly Pro Asn Gly Lys
 385 390 395 400

Asp Pro Ile Leu Ile Arg Lys Asn Glu Val Val Gln Tyr Ser Ile Ser
 405 410 415

Ala Thr Gln Thr Asn Pro Ala Tyr Tyr Gly Ala Asp Ala Ala Asp Phe
 420 425 430

Arg Pro Glu Arg Trp Phe Glu Pro Ser Thr Arg Asn Leu Gly Trp Ala
 435 440 445

Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys Leu Gly Gln Gln Phe
 450 455 460

Ala Leu Thr Glu Ala Gly Tyr Val Leu Val Arg Leu Val Gln Glu Phe
 465 470 475 480

Pro Ser Leu Ser Gln Asp Pro Glu Thr Glu Tyr Pro Pro Pro Arg Leu
 485 490 495

Ala His Leu Thr Met Cys Leu Phe Asp Gly Ala Tyr Val Lys Met Gln
 500 505 510

<210> 116

<211> 499

<212> PRT

<213> CANDIDATROPICALIS

<400> 116

Met Ala Ile Ser Ser Leu Leu Ser Trp Asp Val Ile Cys Val Val Phe
 1 5 10 15

Ile Cys Val Cys Val Tyr Phe Gly Tyr Glu Tyr Cys Tyr Thr Lys Tyr
 20 25 30

Leu Met His Lys His Gly Ala Arg Glu Ile Glu Asn Val Ile Asn Asp
 35 40 45

Gly Phe Phe Gly Phe Arg Leu Pro Leu Leu Leu Met Arg Ala Ser Asn
 50 55 60

Glu Gly Arg Leu Ile Glu Phe Ser Val Lys Arg Phe Glu Ser Ala Pro
 65 70 75 80

His Pro Gln Asn Lys Thr Leu Val Asn Arg Ala Leu Ser Val Pro Val
 85 90 95

Ile Leu Thr Lys Asp Pro Val Asn Ile Lys Ala Met Leu Ser Thr Gln
 100 105 110

Phe Asp Asp Phe Ser Leu Gly Leu Arg Leu His Gln Phe Ala Pro Leu
 115 120 125

Leu Gly Lys Gly Ile Phe Thr Leu Asp Gly Pro Glu Trp Lys Gln Ser
 130 135 140

Arg Ser Met Leu Arg Pro Gln Phe Ala Lys Asp Arg Val Ser His Ile
 145 150 155 160

Ser Asp Leu Glu Pro His Phe Val Leu Leu Arg Lys His Ile Asp Gly
 165 170 175

His Asn Gly Asp Tyr Phe Asp Ile Gln Glu Leu Tyr Phe Arg Phe Ser
 180 185 190

Met Asp Val Ala Thr Gly Phe Leu Phe Gly Glu Ser Val Gly Ser Leu
 195 200 205

Lys Asp Glu Asp Ala Arg Phe Ser Glu Ala Phe Asn Glu Ser Gln Lys
 210 215 220

Tyr Leu Ala Thr Arg Ala Thr Leu His Glu Leu Tyr Phe Leu Cys Asp
 225 230 235 240

Gly Phe Arg Phe Arg Gln Tyr Asn Lys Val Val Arg Lys Phe Cys Ser
 245 250 255

Gln Cys Val His Lys Ala Leu Asp Val Ala Pro Glu Asp Thr Ser Glu
 260 265 270

Tyr Val Phe Leu Arg Glu Leu Val Lys His Thr Arg Asp Pro Val Val
 275 280 285

Leu Gln Asp Gln Ala Leu Asn Val Leu Leu Ala Gly Arg Asp Thr Thr
 290 295 300

Ala Ser Leu Leu Ser Phe Ala Thr Phe Glu Leu Ala Arg Asn Asp His
 305 310 315 320

Met Trp Arg Lys Leu Arg Glu Glu Val Ile Ser Thr Met Gly Pro Ser
 325 330 335

Ser Asp Glu Ile Thr Val Ala Gly Leu Lys Ser Cys Arg Tyr Leu Lys
 340 345 350

Ala Ile Leu Asn Glu Thr Leu Arg Leu Tyr Pro Ser Val Pro Arg Asn
 355 360 365

Ala Arg Phe Ala Thr Arg Asn Thr Thr Leu Pro Arg Gly Gly Gly Pro
 370 375 380

Asp Gly Ser Phe Pro Ile Leu Ile Arg Lys Gly Gln Pro Val Gly Tyr
 385 390 395 400

Phe Ile Cys Ala Thr His Leu Asn Glu Lys Val Tyr Gly Asn Asp Ser
 405 410 415

His Val Phe Arg Pro Glu Arg Trp Ala Ala Leu Glu Gly Lys Ser Leu
 420 425 430

Gly Trp Ser Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ser Cys Leu Gly
 435 440 445

Gln Gln Phe Ala Ile Leu Glu Ala Ser Tyr Val Leu Ala Arg Leu Thr
 450 455 460

Gln Cys Tyr Thr Thr Ile Gln Leu Arg Thr Thr Glu Tyr Pro Pro Lys
 465 470 475 480

Lys Leu Val His Leu Thr Met Ser Leu Leu Asn Gly Val Tyr Ile Arg
485 490 495

Thr Arg Thr

<210> 117
<211> 679
<212> PRT
<213> CANDIDATROPICALIS

<400> 117

Met Ala Leu Asp Lys Leu Asp Leu Tyr Val Ile Ile Thr Leu Val Val
1 5 10 15

Ala Val Ala Ala Tyr Phe Ala Lys Asn Gln Phe Leu Asp Gln Pro Gln
20 25 30

Asp Thr Gly Phe Leu Asn Thr Asp Ser Gly Ser Asn Ser Arg Asp Val
35 40 45

Leu Ser Thr Leu Lys Lys Asn Asn Lys Asn Thr Leu Leu Leu Phe Gly
50 55 60

Ser Gln Thr Gly Thr Ala Glu Asp Tyr Ala Asn Lys Leu Ser Arg Glu
65 70 75 80

Leu His Ser Arg Phe Gly Leu Lys Thr Met Val Ala Asp Phe Ala Asp
85 90 95

Tyr Asp Trp Asp Asn Phe Gly Asp Ile Thr Glu Asp Ile Leu Val Phe
100 105 110

Phe Ile Val Ala Thr Tyr Gly Glu Gly Glu Pro Thr Asp Asn Ala Asp
115 120 125

Glu Phe His Thr Trp Leu Thr Glu Glu Ala Asp Thr Leu Ser Thr Leu
130 135 140

Lys Tyr Thr Val Phe Gly Leu Gly Asn Ser Thr Tyr Glu Phe Phe Asn
145 150 155 160

Ala Ile Gly Arg Lys Phe Asp Arg Leu Leu Ser Glu Lys Gly Gly Asp
165 170 175

Arg Phe Ala Glu Tyr Ala Glu Gly Asp Asp Gly Thr Gly Thr Leu Asp
180 185 190

Glu Asp Phe Met Ala Trp Lys Asp Asn Val Phe Asp Ala Leu Lys Asn
195 200 205

Asp Leu Asn Phe Glu Glu Lys Glu Leu Lys Tyr Glu Pro Asn Val Lys
210 215 220

Leu Thr Glu Arg Asp Asp Leu Ser Ala Ala Asp Ser Gln Val Ser Leu
225 230 235 240

Gly Glu Pro Asn Lys Lys Tyr Ile Asn Ser Glu Gly Ile Asp Leu Thr
245 250 255

Lys Gly Pro Phe Asp His Thr His Pro Tyr Leu Ala Arg Ile Thr Glu
260 265 270

Thr Arg Glu Leu Phe Ser Ser Lys Asp Arg His Cys Ile His Val Glu
275 280 285

Phe Asp Ile Ser Glu Ser Asn Leu Lys Tyr Thr Thr Gly Asp His Leu
290 295 300

Ala Ile Trp Pro Ser Asn Ser Asp Glu Asn Ile Lys Gln Phe Ala Lys
305 310 315 320

Cys Phe Gly Leu Glu Asp Lys Leu Asp Thr Val Ile Glu Leu Lys Ala
325 330 335

Leu Asp Ser Thr Tyr Thr Ile Pro Phe Pro Thr Pro Ile Thr Tyr Gly
340 345 350

Ala Val Ile Arg His His Leu Glu Ile Ser Gly Pro Val Ser Arg Gln
355 360 365

Phe Phe Leu Ser Ile Ala Gly Phe Ala Pro Asp Glu Glu Thr Lys Lys
370 375 380

Ala Phe Thr Arg Leu Gly Gly Asp Lys Gln Glu Phe Ala Ala Lys Val
385 390 395 400

Thr Arg Arg Lys Phe Asn Ile Ala Asp Ala Leu Leu Tyr Ser Ser Asn
 405 410 415

Asn Ala Pro Trp Ser Asp Val Pro Phe Glu Phe Leu Ile Glu Asn Val
 420 425 430

Pro His Leu Thr Pro Arg Tyr Tyr Ser Ile Ser Ser Ser Ser Leu Ser
 435 440 445

Glu Lys Gln Leu Ile Asn Val Thr Ala Val Val Glu Ala Glu Glu Glu
 450 455 460

Ala Asp Gly Arg Pro Val Thr Gly Val Val Thr Asn Leu Leu Lys Asn
 465 470 475 480

Val Glu Ile Val Gln Asn Lys Thr Gly Glu Lys Pro Leu Val His Tyr
 485 490 495

Asp Leu Ser Gly Pro Arg Gly Lys Phe Asn Lys Phe Lys Leu Pro Val
 500 505 510

His Val Arg Arg Ser Asn Phe Lys Leu Pro Lys Asn Ser Thr Thr Pro
 515 520 525

Val Ile Leu Ile Gly Pro Gly Thr Gly Val Ala Pro Leu Arg Gly Phe
 530 535 540

Val Arg Glu Arg Val Gln Gln Val Lys Asn Gly Val Asn Val Gly Lys
 545 550 555 560

Thr Leu Leu Phe Tyr Gly Cys Arg Asn Ser Asn Glu Asp Phe Leu Tyr
 565 570 575

Lys Gln Glu Trp Ala Glu Tyr Ala Ser Val Leu Gly Glu Asn Phe Glu
 580 585 590

Met Phe Asn Ala Phe Ser Arg Gln Asp Pro Ser Lys Lys Val Tyr Val
 595 600 605

Gln Asp Lys Ile Leu Glu Asn Ser Gln Leu Val His Glu Leu Leu Thr
 610 615 620

Glu Gly Ala Ile Ile Tyr Val Cys Gly Asp Ala Ser Arg Met Ala Arg
625 630 635 640

Asp Val Gln Thr Thr Ile Ser Lys Ile Val Ala Lys Ser Arg Glu Ile
645 650 655

Ser Glu Asp Lys Ala Ala Glu Leu Val Lys Ser Trp Lys Val Gln Asn
660 665 670

Arg Tyr Gln Glu Asp Val Trp
675

<210> 118
<211> 679
<212> PRT
<213> CANDIDATROPICALIS

<400> 118

Met Ala Leu Asp Lys Leu Asp Leu Tyr Val Ile Ile Thr Leu Val Val
1 5 10 15

Ala Val Ala Ala Tyr Phe Ala Lys Asn Gln Phe Leu Asp Gln Pro Gln
20 25 30

Asp Thr Gly Phe Leu Asn Thr Asp Ser Gly Ser Asn Ser Arg Asp Val
35 40 45

Leu Ser Thr Leu Lys Lys Asn Asn Lys Asn Thr Leu Leu Leu Phe Gly
50 55 60

Ser Gln Thr Gly Thr Ala Glu Asp Tyr Ala Asn Lys Leu Ser Arg Glu
65 70 75 80

Leu His Ser Arg Phe Gly Leu Lys Thr Met Val Ala Asp Phe Ala Asp
85 90 95

Tyr Asp Trp Asp Asn Phe Gly Asp Ile Thr Glu Asp Ile Leu Val Phe
100 105 110

Phe Ile Val Ala Thr Tyr Gly Glu Gly Glu Pro Thr Asp Asn Ala Asp
115 120 125

Glu Phe His Thr Trp Leu Thr Glu Glu Ala Asp Thr Leu Ser Thr Leu
130 135 140

Arg Tyr Thr Val Phe Gly Leu Gly Asn Ser Thr Tyr Glu Phe Phe Asn
145 150 155 160

Ala Ile Gly Arg Lys Phe Asp Arg Leu Leu Ser Glu Lys Gly Gly Asp
165 170 175

Arg Phe Ala Glu Tyr Ala Glu Gly Asp Asp Gly Thr Gly Thr Leu Asp
180 185 190

Glu Asp Phe Met Ala Trp Lys Asp Asn Val Phe Asp Ala Leu Lys Asn
195 200 205

Asp Leu Asn Phe Glu Glu Lys Glu Leu Lys Tyr Glu Pro Asn Val Lys
210 215 220

Leu Thr Glu Arg Asp Asp Leu Ser Ala Ala Asp Ser Gln Val Ser Leu
225 230 235 240

Gly Glu Pro Asn Lys Lys Tyr Ile Asn Ser Glu Gly Ile Asp Leu Thr
245 250 255

Lys Gly Pro Phe Asp His Thr His Pro Tyr Leu Ala Arg Ile Thr Glu
260 265 270

Thr Arg Glu Leu Phe Ser Ser Lys Glu Arg His Cys Ile His Val Glu
275 280 285

Phe Asp Ile Ser Glu Ser Asn Leu Lys Tyr Thr Thr Gly Asp His Leu
290 295 300

Ala Ile Trp Pro Ser Asn Ser Asp Glu Asn Ile Lys Gln Phe Ala Lys
305 310 315 320

Cys Phe Gly Leu Glu Asp Lys Leu Asp Thr Val Ile Glu Leu Lys Ala
325 330 335

Leu Asp Ser Thr Tyr Thr Ile Pro Phe Pro Thr Pro Ile Thr Tyr Gly
340 345 350

Ala Val Ile Arg His His Leu Glu Ile Ser Gly Pro Val Ser Arg Gln
355 360 365

Phe Phe Leu Ser Ile Ala Gly Phe Ala Pro Asp Glu Glu Thr Lys Lys
 370 375 380

Thr Phe Thr Arg Leu Gly Gly Asp Lys Gln Glu Phe Ala Thr Lys Val
 385 390 395 400

Thr Arg Arg Lys Phe Asn Ile Ala Asp Ala Leu Leu Tyr Ser Ser Asn
 405 410 415

Asn Thr Pro Trp Ser Asp Val Pro Phe Glu Phe Leu Ile Glu Asn Ile
 420 425 430

Gln His Leu Thr Pro Arg Tyr Tyr Ser Ile Ser Ser Ser Ser Leu Ser
 435 440 445

Glu Lys Gln Leu Ile Asn Val Thr Ala Val Val Glu Ala Glu Glu Glu
 450 455 460

Ala Asp Gly Arg Pro Val Thr Gly Val Val Thr Asn Leu Leu Lys Asn
 465 470 475 480

Ile Glu Ile Ala Gln Asn Lys Thr Gly Glu Lys Pro Leu Val His Tyr
 485 490 495

Asp Leu Ser Gly Pro Arg Gly Lys Phe Asn Lys Phe Lys Leu Pro Val
 500 505 510

His Val Arg Arg Ser Asn Phe Lys Leu Pro Lys Asn Ser Thr Thr Pro
 515 520 525

Val Ile Leu Ile Gly Pro Gly Thr Gly Val Ala Pro Leu Arg Gly Phe
 530 535 540

Val Arg Glu Arg Val Gln Gln Val Lys Asn Gly Val Asn Val Gly Lys
 545 550 555 560

Thr Leu Leu Phe Tyr Gly Cys Arg Asn Ser Asn Glu Asp Phe Leu Tyr
 565 570 575

Lys Gln Glu Trp Ala Glu Tyr Ala Ser Val Leu Gly Glu Asn Phe Glu
 580 585 590

Met Phe Asn Ala Phe Ser Arg Gln Asp Pro Ser Lys Lys Val Tyr Val
595 600 605

Gln Asp Lys Ile Leu Glu Asn Ser Gln Leu Val His Glu Leu Leu Thr
610 615 620

Glu Gly Ala Ile Ile Tyr Val Cys Gly Asp Ala Ser Arg Met Ala Arg
625 630 635 640

Asp Val Gln Thr Thr Ile Ser Lys Ile Val Ala Lys Ser Arg Glu Ile
645 650 655

Ser Glu Asp Lys Ala Ala Glu Leu Val Lys Ser Trp Lys Val Gln Asn
660 665 670

Arg Tyr Gln Glu Asp Val Trp
675